

## ABSTRACT OF THE DISCLOSURE

A process for transmitting data on a bus, minimizing the switching activity, involves converting the data between a first format and a second format used for transmission of the data. The conversion between said first format and said second format entails the swapping of position of respective bits within a cluster comprising a given number of bits, the swap operation being implementable according to different variants, the maximum number of said variants being equal to the factorial of the aforesaid given number. Each of said variants is identified by a respective pattern. Among the aforesaid patterns, an optimal pattern is selected which minimizes the switching activity at the moment of transmission of data on the bus. The data are then transmitted on the bus using the second format generated using said optimal pattern.

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